

CLAIMS:

1. A shaving apparatus comprising:
at least one shaving head (5) including a shaving surface (9) for contacting the skin during shaving and at least one cutter (4) that is moveable behind the shaving surface (9);
5 a drive structure (3) including a motor (2) and coupled to the at least one cutter (4) for driving the movement of the at least one cutter (4);
electric power supply means (10, 11) connected to the motor;
a housing (1; 51; 101; 151) containing the motor (2) and at least part of the electric power supply means (10, 11) and carrying the drive structure (3); and
10 a shell structure (12; 62; 112; 162) enveloping at least a portion of the housing (1; 51; 101; 151) behind the at least one shaving head (5) when mounted to the housing (1; 51; 101; 151).
2. A shaving apparatus according to claim 1, further comprising a shaving head
15 holder support (7) carrying a shaving head holder (8) to which the at least one shaving head is mounted (5), wherein the shell structure (12; 62; 112; 162) extends at least from a face against which the at least one shaving head holder support (7) is mounted to a power plug socket (37) at an end of the housing opposite from the face against which the at least one shaving head holder support (7) is mounted.
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3. A shaving apparatus according to claim 2, wherein the shell structure (12; 62; 112) fully envelopes the housing (1; 51; 101) at least between the face against which the at least one shaving head holder support (7) is mounted and the power plug socket (37).
- 25 4. A shaving apparatus according to any one of the preceding claims, wherein the shell structure (12; 62; 112; 162) includes shell portions spaced from the housing (1; 51; 101; 151); such that an interspace (21) is left between the housing (1; 51; 101; 151) and said shell portions.

5. A shaving apparatus according to claim 4, further comprising at least one draining passage (13) for draining the interspace (21) between the housing (1; 51; 101; 151) and the shell structure (12; 62; 112; 162).
- 5 6. A shaving apparatus according to any one of the preceding claims, wherein at least a portion of the shell structure is of a more impact resistant material than the housing (1; 51; 101; 151).
7. A shaving apparatus according to any one of the preceding claims, wherein at
10 least a portion of the shell structure is of a softer material than the housing (1; 51; 101; 151).
8. A shaving apparatus according to any one of the preceding claims, wherein the housing (51; 101; 151) includes at least a first operating member (74; 136) and wherein the shell structure (62; 112; 162) includes at least a second operating member (79; 133)
15 operatively connected with said first operating member (74; 136).
9. A shaving apparatus according to claim 8, wherein said second operating member (79) is mechanically connected with said first operating member (74).
- 20 10. A shaving apparatus according to claim 8 or 9, wherein said second operating member (133) electrically connected with said first operating member (136).
11. A shaving apparatus according to any one of the preceding claims, further comprising an optical signaling member (75, 76, 77) said shell structure (62) including a
25 window (81, 82) via which optical signals generated by said optical signaling member are visible (75, 76, 77).
12. A shaving apparatus according to any one of the preceding claims, wherein the shell structure (12; 62; 112; 162) is detachable from the housing (1; 51; 101; 151).
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13. An assortment of at least two shaving apparatuses, each according to any one of the preceding claims,
wherein said housings (1; 51; 101; 151) of at least two of said apparatuses have mutually identical shapes; and

wherein at least portions of two of said shell structures (12; 62; 112; 162) of said at least two apparatuses that cover mutually corresponding portions of the housings of said at least two apparatuses have mutually different shapes.

5 14. An assortment comprising at least one shaving apparatus according to any one of the claims 1-12 and at least two of said shell structures (12; 62; 112; 162), wherein said shell structures (12; 62; 112; 162) are each mountable to said housing (1; 51; 101; 151) as an alternative for the other one of said shell structures (12; 62; 112; 162), and wherein at least portions of two of said shell structures (12; 62; 112; 162) that, when in mounted condition,
10 cover the same portions of said housing (1; 51; 101; 151) have mutually different shapes.

15. A method of manufacturing shaving apparatuses, each comprising at least one shaving head (5) including a shaving surface (9) for contacting the skin during shaving and at least one cutter (4) moveable behind the shaving surface (9); a drive structure (3) including a
15 motor (2) and coupled to the at least one cutter (4) for driving movement of the at least one cutter (4); electric power supply means (10, 11) connected to the motor; comprising:
manufacturing, for each of said shaving apparatuses, a housing (1; 51; 101; 151) containing the motor (2) and at least part of the electric power supply means (10, 11) and carrying the drive structure (3), said housings being identical to each other; and
20 manufacturing, for each of said shaving apparatuses, a shell structure (12; 62; 112; 162) enveloping at least a portion of the housing (1; 51; 101; 151) behind the at least one shaving head (5) when mounted to the housing (1; 51; 101; 151), said shell structures having shapes different from each other.